1. Device Name VC-TCXO
2. Model Name DSA535SC
3. Nominal Frequency 15.600 MHz
4. Mass 0.08g max.

5. Absolute Maximum Ratings

	Item	Symbol	Rating	unit
1	Supply Voltage	V_{CC}	-0.3 ~ +6.0	V
2	Storage Temperature Range	$T_{_STR}$	-40 ~ +85	°C

6. Recommended Operating Conditions

	Item	Symbol	min.	typ.	max.	unit
1	Supply Voltage	V_{CC}	+4.75	+5.0	+5.25	V
2	Load impedance (resistance part)	L_{OAD}_R	9	10	11	kΩ
	(parallel capacitance)	L_{OAD}_C	9	10	11	pF
3	Control Voltage Range	V_{CONT}	+0.5	+1.5	+2.5	V
4	Operable Temperature Range	T_{OPR}	-30	-	+85	°C

7. Electrical Characteristics

(T_A=-30 ~ +85 °C, L_{OAD}_R//C=10kΩ//10pF, V_{CC}=+5.0V, V_{CONT}=+1.5V unless otherwise noted)

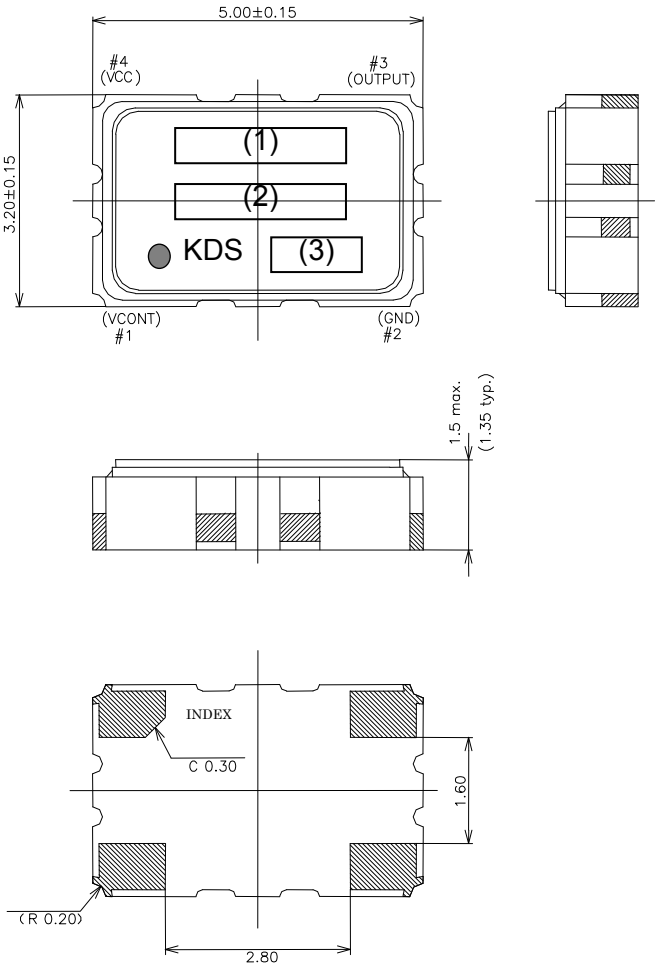
	Item	Conditions	Limits			unit	Notes
			min.	typ.	max.		
1	Current consumption		-	-	1.5	mA	
2	Output Level		0.8	-	-	V_{P-P}	1
3	Symmetry	GND level (DC cut)	40/60	-	60/40	%	
4	Harmonics		-	-	-10	dBc	
5	Frequency Stability						
	1.Tolerance	At shipping	-	-	±1.5	ppm	2
		After 2 times reflow	-	-	±2.5	ppm	2,3
	2.vs Temperature	T_A=-30 ~ +85 °C Ref. to Frequency (T_A=+25°C)	-	-	±2.5	ppm	
	3.vs Supply Voltage	V_{CC}=+5.0V±5%	-	-	±0.3	ppm	
	4.vs Load Variation	L_{OAD}_R//C=(10kΩ//10pF)±10%	-	-	±0.2	ppm	
	5.vs. Aging	T_A= Room ambient	-	-	±1.0	ppm/year	
6	Start up Time	@90% of Final V_{OUT} level	-	-	2.0	ms	
7	Frequency Control						
	1.Control Range	V_{CONT}=+0.5 ~ +2.5V (Ref:=+1.5V)	±9	-	±15	ppm	4
	2.Input Resistance		500	-	-	kΩ	
8	SSB Phase Noise	Relative to F0 level offset 1kHz	-	-	-125	dBc/Hz	

Notes
1 Clipped sine wave (DC-coupled)
2 Ref. to Nominal Frequency
3 Please leave after Reflow in 2h or more at room ambient
4 Positive slope (Frequency becomes high in proportion to frequency control voltage.)

TITLE	Remark		
VC-TCXO SPECIFICATION	T16-0489		
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8. Outline, Pin Connections

Outline



Pin Connections

Pin No.	Connection
#1	V_{CONT}
#2	GND
#3	Output
#4	V_{CC}

Marking

(1) Frequency 15600 (kHz, 5digits)

(2) Model code A535SC

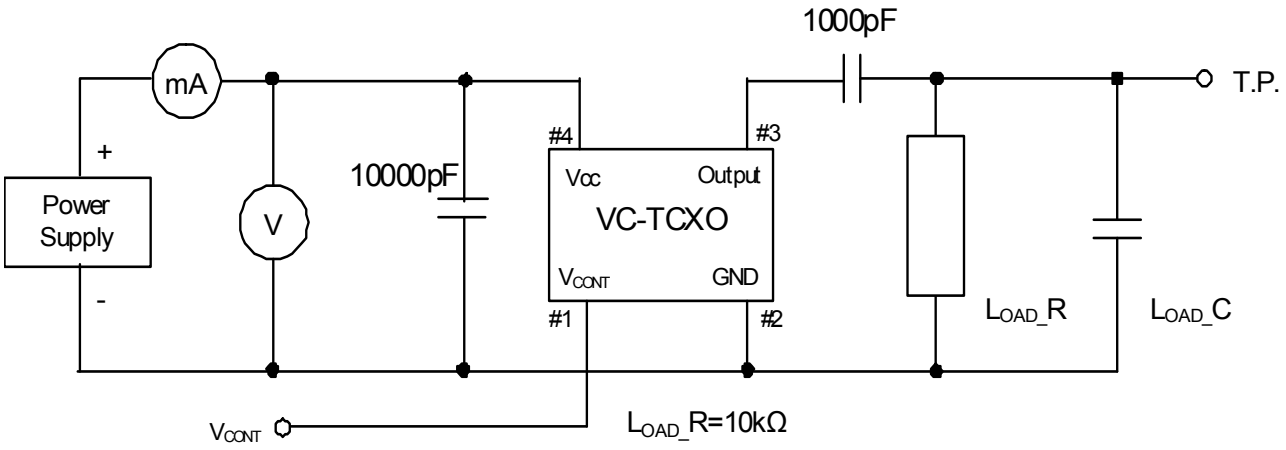
(3) Date code Year (1digit) + Week (2digits)
e.g.2016/1/1 → 601

unit: mm

Dimensional Tolerance: ±0.15

(Unless otherwise noted)

9. Measurement Circuit



L_{OAD}_R=10kΩ

L_{OAD}_C=10pF (Include Jig stray capacitance)

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